

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							February 2002			
BUDGET ACTIVITY 5 - Engineering and manufacturing development				PE NUMBER AND TITLE 0604817A - Combat Identification						
COST (In Thousands)		FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost		6705	2989	1995	0	0	0	0	0	155116
482	GROUND CID (BCIS)	3838	0	0	0	0	0	0	0	123922
902	INDIVIDUAL COMBAT IDENTIFICATION SYSTEM (ICIDS)	2867	2989	1995	0	0	0	0	0	31194
<p><u>A. Mission Description and Budget Item Justification:</u>The dominant maneuver tactics that allow smaller, more lethal forces to succeed on the modern battlefield also increase the potential for friendly fire casualties. Thus, a key enabler of complex warfare is the rapid, reliable identification of friends, foes, and neutrals. Positive identification at the point-of-engagement is complicated by the capabilities of modern weapons that allow engagements well beyond the range where visual identification is possible, significantly increasing the potential for fratricide. These programs are directed toward the design and development of distinct systems to help minimize this battlefield deficiency within the overall Combat Identification architecture. Project 482 addressed the ground-to-ground vehicle mounted mission and Project 902 addresses the individual soldier-to-soldier mission. Survivability is one of the seven tenets of the Army Transformation Strategy and these Combat Identification programs represent an integral part of that strategy as they work to reduce incidents of fratricide. These systems support the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP), as well as providing a critical link to ensuring compatibility and interoperability to the Future Combat System and to the Objective Warrior System.</p>										

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BUDGET ACTIVITY

5 - Engineering and manufacturing development

PE NUMBER AND TITLE

0604817A - Combat Identification**B. Program Change Summary**

	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2002 PB)	5313	3014	0
Appropriated Value	5362	3014	0
Adjustments to Appropriated Value	0	0	0
a. Congressional General Reductions	0	-25	0
b. SBIR/STTR	-158	0	0
c. Omnibus or Other Above Threshold Reprogrammings	0	0	0
d. Below Threshold Reprogramming	1550	0	0
e. Rescissions	-49	0	0
Adjustments to Budget Years Since FY2002 PB	0	0	1995
Current Budget Submit (FY 2003 PB)	6705	2989	1995

Change Summary Explanation:

FY2001 - \$1.550M reprogrammed into Proj 482 to fund BCIS A-Kit effort

FY2003 - \$1.995M transferred from OPA2 (BA0515) to Proj 902 to support IOT

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BUDGET ACTIVITY 5 - Engineering and manufacturing development				PE NUMBER AND TITLE 0604817A - Combat Identification					PROJECT 902			
COST (In Thousands)				FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
902	INDIVIDUAL COMBAT IDENTIFICATION SYSTEM (ICIDS)			2867	2989	1995	0	0	0	0	0	31194
<p><u>A. Mission Description and Budget Item Justification:</u>The identification of friendly forces on future battlefields will be more complex due to the highly mobile, dispersed, non-linear formations found in unconventional warfare. The Individual Combat Identification System (ICIDS) is a lightweight, laser-based, question and answer type system, used by the individual soldiers to positively identify friendly soldiers. The system includes a compact, eyesafe laser interrogator, a laser detector assembly, an electronic processor unit, and an omni-directional RF responder. The laser interrogator includes an aiming laser pointer for aiming the soldier's weapon at night when using Night Vision Goggles and provides an embedded training capability that is interoperable with MILES/MILES 2000 training systems. The system will provide combat identification beyond the effective range of the weapon and will exceed the soldier's target acquisition capability under degraded atmospheric conditions. The system will also be directly interoperable and have a commonality and a migration path with the combat ID functions to be embedded in the Land Warrior equipment suite. The system will fulfill requirements stated in the Operational Requirements Document for use by Army, Marine and Special Operations Forces. Survivability is one of the seven tenets of the Army Transformation Strategy and ICIDS represents an integral part of that strategy as it works to reduce incidents of fratricide and increase combat effectiveness. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP), as well as providing a critical link to ensuring compatibility and interoperability to the Objective Warrior System.</p>												
<p><u>FY 2001 Accomplishments:</u></p> <ul style="list-style-type: none">1766 Completed fabrication, assembly and test of 50 System Development and Demonstration (SDD) hardware systems to support technical testing.487 Completed Phase II, Development Testing.290 Performed data reduction and analysis from government test.324 Conducted Airborne Certification.												
Total	2867											

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<p><u>FY 2002 Planned Program</u></p> <ul style="list-style-type: none"> • 2039 Conduct Land Warrior Interoperability Study. • 450 Develop Computer Based Training. • 500 Continue Software Effort to Interface with Army Key Management System. <p>Total 2989</p> <p><u>FY 2003 Planned Program</u></p> <ul style="list-style-type: none"> • 1600 Conduct Initial Operational Test and Evaluation (IOT&E). • 395 Perform data reduction and analysis from government test. <p>Total 1995</p>		

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<u>B. Other Program Funding Summary</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>To Compl</u>	<u>Total Cost</u>
OPA2, SSN BA0515 Combat ID/Aiming Light	10939	10423	0	0	0	0	0	0	21362
<p><u>C. Acquisition Strategy:</u> A competitive, cost plus incentive fee (CPIF) contract for the design, fabrication and testing of 50 units was awarded in July 1997. A follow-on Fixed Price (FP), sole source, Low Rate Initial Production (LRIP) contract, based on demonstrated technical test results, was awarded in September 2001 to provide an orderly ramp up to production.</p>									
<u>D. Schedule Profile</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>		
Complete fabrication of 50 hardware systems	1Q								
Development Test, Phase II	1-2Q								
Airborne Certification	3Q								
Milestone C	4Q								
LRIP Award	4Q								
Initial Operational Test & Evaluation (IOT&E)			4Q						

ARMY RDT&E COST ANALYSIS(R-3)									February 2002			
BUDGET ACTIVITY 5 - Engineering and manufacturing development					PE NUMBER AND TITLE 0604817A - Combat Identification					PROJECT 902		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Hardware	C/CPIF	General Dynamics, Scottsdale, AZ	20979	994	1Q	0		0		0	21973	21973
b . Land Warrior Interoperability Effort	C/CPIF	General Dynamics, Scottsdale, AZ	0	0		1860	1Q	0		0	1860	1860
Subtotal:			20979	994		1860		0		0	23833	23833
Remarks: General Dynamics purchased Motorola's Integrated Information Systems Group in 2001.												
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Sys Eng/Tech Assist	C/T&M	Misc	120	450	1Q	775	1Q	0		0	1345	1345
b . Matrix Support	MIPR	Misc	641	153	1-2Q	140	1-2Q	118	1Q	0	1052	1052
Subtotal:			761	603		915		118		0	2397	2397

ARMY RDT&E COST ANALYSIS(R-3)									February 2002			
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III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Test Planning/Execution	MIPR	CECOM, ATEC, WSMR, SLAD, etc	804	330	1Q	0		150	1Q	0	1284	1284
b . Development Test, Phase I, II	MIPR	WSMR, OTC, ATEC, etc	0	679	1Q	0		0		0	679	679
c . IOTE	MIPR	ATEC, OTC	0	0		0		1600	1Q	0	1600	1600
Subtotal:			804	1009		0		1750		0	3563	3563
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Program Management		PM Combat ID	799	261	1Q	214	1Q	127	1Q	0	1401	1401
Subtotal:			799	261		214		127		0	1401	1401
Project Total Cost:			23343	2867		2989		1995		0	31194	31194